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Imagery analysis report

SA-X-10 Surface-to-Air Missile Deployment in the USSR (S)

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25X1

SA-X-10 SURFACE-TO-AIR MISSILE DEPLOYMENT IN THE USSR (S)

SUMMARY

1. (S/D) The deployment of SA-X-10 surface-to-air missile (SAM) systems at various locations in the USSR (Figure 1 and Table 1) is underway. This new deployment was first identified in May 1980. The deployment consisted of the construction of a new SA-X-10 site at Riga and the conversion of four SA-2 and five SA-3 sites to SA-X-10 sites. The SAM site conversions were in the Novosibirsk, Severodvinsk, Nikolayev, and Riga areas. In addition to the construction and conversion of SAM sites, SA-X-10 equipment has been identified at four SA-1 sites in the Moscow area and at the Severodvinsk SAM Support Facility. To date, no SA-X-10 equipment has been identified at either the new or converted SAM sites nor have any SA-X-10 sites been identified in the Moscow area. This report covers activity through 25X1

DESCRIPTION

New Site Construction

2. (S/D) The Riga SAM Site A24-10 (Figure 2) was the only SA-X-10 site identified that was not a conversion of an established SAM facility. The site consists of one complete launch revetment and a completed electronics revetment. This site is next to Riga SAM Support Facility 2 (BE and may be a construction test/evaluation area. The site was first observed on 25X1

SAM Site Conversion Activity

3. (S/D) Only one site at Novosibirsk was under conversion. At Novosibirsk SAM Site B01-2 (Figure 3), conversion of the launch revetments was complete on 25X1 but the electronics revetment had not yet been built. The SA-2 equipment was still deployed with the six SA-2 launchers between the six SA-X-10 launch revetments. The SA-2 electronics equipment remained in the central guidance area. The modification was first observed on 25X1

4. (S/D) As of September 1980, four sites were undergoing conversion at Severodvinsk. At Severodvinsk SAM Site A36-2, all six of the launch revetments were being converted, and the earth had been removed from the triple-arch-roofed structure in the central guidance and control area. On 25X1 one of the six launch revetments was completely net/canvas covered. A tentlike structure was near the covered revetment, and a missile-hold revetment contained canvas-covered vehicles/pieces of equipment. The SA-2 equipment was set up at a field-deployed site nearby. Conversion of this site was first observed on 25X1 At Severodvinsk SAM Site A24-3, two of the four SA-3 launch revetments were being converted. However, one of the two other revetments still contained an SA-3 launcher. Conversion was first observed on 25X1 At Severodvinsk SAM Site A12-3, the four SA-3 launch revetments have been replaced by six drive-through SA-X-10 launch revetments. On 25X1 when conversion of this site was first observed, two of the revetments were partially net/canvas covered. At Severodvinsk SAM Site B28-2, three of the six SA-2 launch revetments were being converted. Conversion of this site was first observed on 25X1 25X1

5. (S/D) Three sites were being converted at Nikolayev. At Nikolayev SAM Site A09-3, five SA-X-10 revetments were under construction at the end of this reporting period. Unlike other site modifications, the old revetments were leveled before construction on the new revetments began. Also, unlike the other modified sites, these new revetments have an overall oval shape. However, the interior is trapezoidal, like the other SA-X-10 revetments. The SA-3 equipment had been moved next to the support area and remained operational. The modification of this site was first observed on [redacted] At Nikolayev SAM Site A15-3, six SA-X-10 launch revetments were under construction. As with Nikolayev SAM Site A09-3, this is not a typical conversion. The outline of the SA-X-10 revetments was plotted on the ground outside the existing SA-3 launch revetments. As construction of the SA-X-10 revetments progressed, the SA-3 equipment was moved. By [redacted] the SA-3 equipment had been deployed to a field on the east side of the support area. On [redacted] a net canopy was observed erected at the south edge of the site near one of the launch revetments. The modification of this site was first observed on [redacted] At Nikolayev SAM Site A25-3, six launch positions were in the midstage of construction on [redacted] The former SA-3 launch revetments have been partially razed. As with the other two sites there, the SA-3 equipment has been deployed to an unrevetted site near the support area and remained operational. Initial construction was observed on [redacted] 25X1 25X1 25X1 25X1 25X1 25X1 25X1

6. (S/D) In addition to the new site, two sites were being converted at Riga. At Riga SAM Site A32-3, three of the four SA-3 launch revetments were being converted on [redacted] 25X1

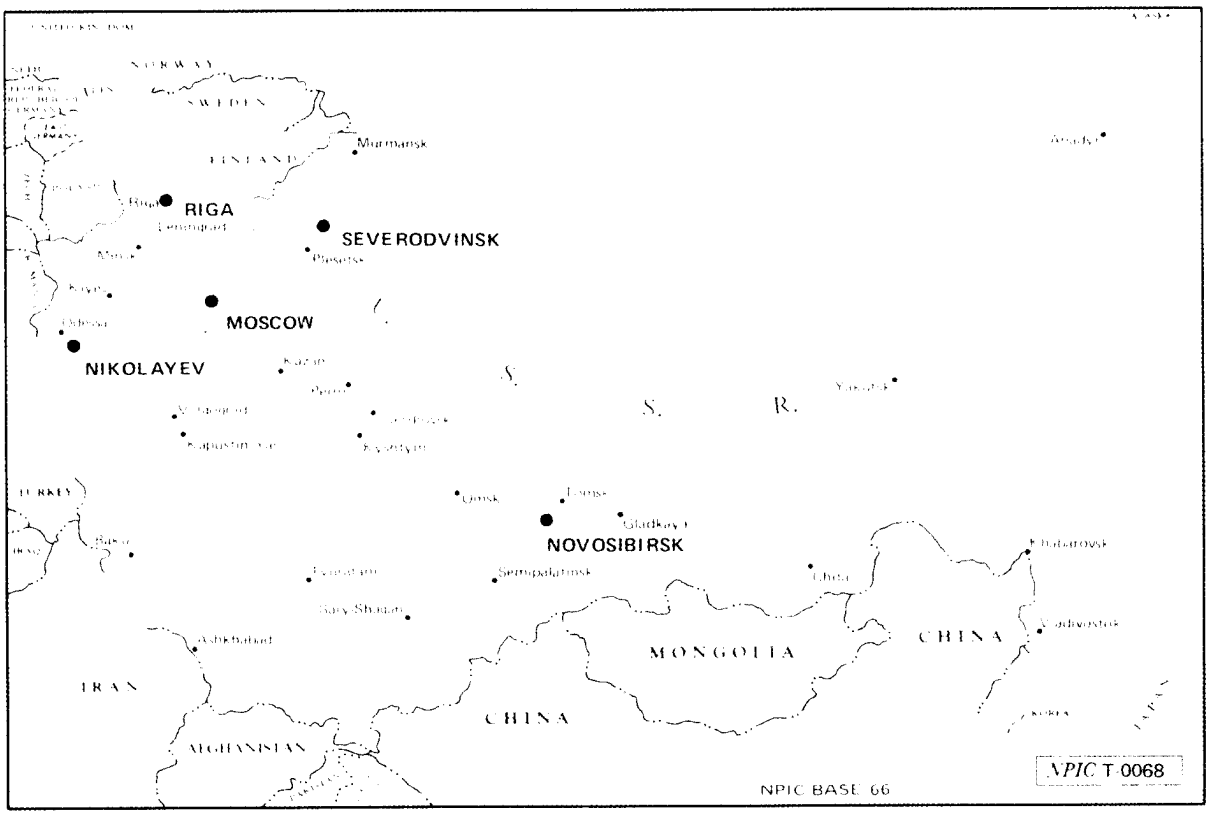

FIGURE 1. LOCATIONS OF SA-X-10 SAM DEPLOYMENT, USSR

In addition, the SA-X-10 electronics revetments were complete. The modification of this site was first observed on [redacted] At Riga SAM Site B03-2, three of the six SA-2 launch revetments and the acquisition radar position were being modified. The SA-2 launchers were gradually removed between May and July. Modification of this site was first observed on [redacted] 25X1 25X1

(Continued p. 7)

Table 1.
Facilities Related to the Deployment of the SA-X-10 Missile System (Keyed to Text)

This table in its entirety is classified SECRET/WNINTEL 25X1

Name	Coordinates	BE No	Activity
Riga SAM Site A24-10	56-54-25N 023-56-05E		New site
Severodvinsk SAM Site A36-2	64-38-45N 039-49-49E		Site conversion & concealment
Severodvinsk SAM Site A24-3	64-29-45N 039-38-50E		Site conversion
Severodvinsk SAM Site A12-3	64-31-54N 040-08-24E		Site conversion & concealment
Severodvinsk SAM Site B28-2	64-35-15N 039-24-54E		Site conversion
Nikolayev SAM Site A09-3	46-57-40N 032-08-20E		Site conversion, oval revetments
Nikolayev SAM Site A15-3	46-54-07N 032-03-13E		Site conversion, oval revetments
Nikolayev SAM Site A25-3	46-55-38N 031-54-11E		Site conversion
Riga SAM Site A32-3	57-01-47N 023-59-27E		Site conversion
Riga SAM Site B03-2	57-06-09N 024-14-23E		Site conversion
Novosibirsk SAM Site B01-2	55-15-58N 082-58-42E		Site conversion & launch positions complete
Moscow SAM Site C07-1	55-55-16N 038-19-44E		SA-X-10 equipment
Moscow SAM Site C09-1	55-47-57N 038-20-51E		SA-X-10 equipment
Moscow SAM Site C10-1	55-40-36N 038-21-12E		SA-X-10 equipment
Moscow SAM Site C12-1	55-32-33N 038-22-04E		SA-X-10 equipment
Severodvinsk SAM Support Fac 1	63-36-59N 039-49-20E		SA-X-10 transporters

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Deployed SA-X-10 Equipment

7. (S/D) SA-X-10 equipment was observed at four SA-1 sites in the C-ring east of Moscow. This equipment was all observed for the first time on [redacted] and was not present on [redacted] 25X1 25X1
At all four sites, the equipment was either partially or completely canvas/net covered. At Moscow SAM Site C07-1 (Figure 4), the SA-X-10 equipment consisted of six SA-X-10 launchers, one SH-EL-01 radar, one SH-EL-02 radar, one transportable electronics tower (TET), and eight vans. At Moscow SAM Site C09-1, the SA-X-10 equipment consisted of six SA-X-10 launchers, one SH-EL-01 radar, one SH-EL-02 radar, two TET, and eight electronics vans. At Moscow SAM Site C10-1, the SA-X-10 equipment consisted of six SA-X-10 launchers, one SH-EL-01 radar, one SH-EL-02 radar, one TET, and eight electronics vans. At Moscow SAM Site C12-1, the SA-X-10 equipment consisted of six SA-X-10 launchers, one SH-EL-01 radar, one SH-EL-02 radar, two TET, and eight electronics vans. The SH-EL-02 radar is mounted on one of the TET. This is the first time an SH-EL-02 radar has been observed mounted on the TET other than at Sary Shagan Missile Test Center ([redacted] 25X1

8. (S/D) Other than Moscow, the only deployed SA-X-10 equipment has been at Severodvinsk SAM Support Facility 1. On [redacted] eight SA-X-10 canister transporters were observed at this facility. By [redacted] the number of canister transporters had increased to 18. No other SA-X-10-related equipment has been identified at this facility. 25X1 25X1

(S) Comments and queries regarding this report are welcome. They may be directed to [redacted] Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC, [redacted] 25X1 25X1

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